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26.04.89 Bulletin 89/17(71) Applicant: **PENNZOIL PRODUCTS COMPANY**
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R.G.C. Jenkins & Co. 26 Caxton Street
London SW1H 0RJ(GB)(54) **Rust converting and removing compositions.**

(57) A rust converting composition comprises ascorbic acid, lignin sulfonate, and a water insoluble polymer, such as polyvinylpyrrolidone, and optionally a thickener. The invention further provides a method for removing rust from rusted metal surfaces by applying the composition, allowing the composition to remain on the rusted metal surface until substantially all of the rust is converted to a water soluble form, and removing the composition from the metal surface by washing with water.

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EP 87 30 6800

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
A	DE-A-2 040 546 (FELDMAN, HAGEN) * Claims 1-4 * ---	1,7,13,15	C 23 G 1/02
A	EP-A-0 091 194 (GAF CORP.) * Claims 1,2 * ---	1-3,7-12,15-19	
D,A	US-A-4 529 450 (R. PANAYAPPAN) * Claims 1,2,7,8,14-24; examples * ---	1-3,7,8,14,15-16	
D,A	US-A-3 173 864 (A.J. FREEDMAN) * Claims 1-2; examples II,III * ---	1,5,6	
A	US-A-4 325 744 (R. PANAYAPPAN) -----		
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			C 23 G
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 02-02-1989	Examiner DE ANNA P.L.
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			